

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION

<b>Product Trade Name</b>	Pertua Oil and Metal Treatment
<b>CAS Number</b>	Not Applicable for Mixtures
<b>Product Information</b>	For use to fortify any kind of engine oil
<b>Product Use</b>	For product use guide, refer to TDS
<b>Company Name</b>	Pertua Marketing Corporation
<b>Address</b>	70 Old Samson Road, Balintawak, Quezon City, Philippines
<b>Telephone Number</b>	(632 362 1545)
<b>MSDS No</b>	POI-MSDS-001

## SECTION 2 - HAZARD IDENTIFICATION

<b>Principal Hazards</b>	R36/37/38 - Irritating to eyes, respiratory system and skin
<b>Routes of Entry</b>	Inhalation, Ingestion, Eye contact, Dermal contact
<b>Eye Contact</b>	May cause eye irritation from mild to severe.
<b>Skin Contact</b>	May cause skin irritation.
<b>Inhalation</b>	If inhaled especially for severe dosage may cause respiratory tract irritation.
<b>Ingestion</b>	May cause gastrointestinal irritation.

## SECTION 3 - COMPOSITION INFORMATION

<b>Base Oil</b>	<80%
<b>Benzene</b>	

## SECTION 4 - FIRST AID MEASURES

<b>Ingestion</b>	Rinse mouth out with water. DO NOT induce vomiting. If irritation develops or persists or vomiting has occurred after ingestion, seek medical assistance.
<b>Eye</b>	Rinse cautiously with running water for several minutes. If irritation persists, seek medical attention.
<b>Skin Contact</b>	If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with soap and water. If irritation develops or persists, consult a Doctor.
<b>Inhalation</b>	Affected patient must be removed from further exposure into fresh air. Avoid exposing yourself when providing assistance and only enter contaminated environment with adequate respiratory equipment. Lay patient down in a well-ventilated area and reassure them. If not breathing, provide artificial respiration and seek immediate medical assistance.

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<b>Additional Information</b>	Note to Physician: Treat symptomatically. Monitor patient for adverse effect.
<b>Protection for First Aiders</b>	Do not place oneself in a potentially hazardous situation. Use proper protective personal equipment depending on application.
<b>First Aid Facilities</b>	Eye wash fountain and safety showers are recommended in the area where the product is being used.

## SECTION 5 - FIRE FIGHTING MEASURES

<b>Fire</b>	This product is not flammable under conditions of use. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool with water spray.
<b>Flash Point</b>	214°C
<b>Suitable Extinguishing Media</b>	CO <sub>2</sub> , Dry Chemical, Foam
<b>Unsuitable Extinguishing Media</b>	Avoid using full water jet directed at residual material that may be burning. Water may cause splattering on hot oil. Product will float on water.
<b>Firefighting Procedures</b>	Recommended wearing self-contained breathing apparatus

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PROTECTION</b>	For small spills, wear Nitrile gloves, glasses/goggles, boots and full-length clothing. During routine operation a respirator is not required. However, if mists or vapors are generated, an approved organic vapor/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant bodysuit is recommended and the atmosphere must be evaluated for oxygen deficiency. If in doubt wear self-contained breathing apparatus.
<b>CONTROL MEASURES</b>	Ventilate area and extinguish and/or remove all sources of ignition. Stop the leak if safe to do so. Caution: The spilled product will be slippery. Avoid contact with the spilled material. Prevent entry into sewers, waterways and basements.
<b>EMERGENCY PROCEDURE</b>	In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.
<b>CONTAINMENT</b>	Contain the spill and absorb with a proprietary absorbent material, sand or earth. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bonding, or that drains are covered, to minimize the potential for this to occur.
<b>CLEANING PROCEDURES:</b>	Having contained the spill, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Follow local regulations for the disposal of waste.

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## SECTION 7 - HANDLING AND STORAGE

### Handling Procedures

Keep containers closed when not in used. Do not discharge into drains or the environment. Dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid use in confined areas without adequate ventilation. Wash thoroughly after handling. Launder contaminated clothes before reuse. Empty containers contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional and national regulations.

### SAFE STORAGE

This product is a hydrocarbon-based liquid that will burn if preheated. Store in a well-ventilated area away from direct sunlight, ignition sources, oxidizing agents, foodstuffs and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### INCOMPATIBILITIES

Oxidizing substances including strong acids.

## SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

### Engineering Controls

Vapors are heavier than air and will tend to accumulate in low areas. Avoid use in confined space without adequate ventilation.

### Skin and Hand Protection

Wear gloves should there will be a chance of contact with the material. Nitrile rubber gloves are recommended. During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to reuse.

### Eye and Face Protection

Wear safety glasses/goggles to avoid eye contact when handling. If there is a risk of splashing during use, a full face shield is recommended

### Respiratory Protection

Use respirator with the combination of organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for poorly ventilated areas and for large spill clean-up sites

### Thermal Protection

Not Applicable

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Physical State

Liquid

### Appearance / Color

Violet

### Flash Point

214°C

### Explosion Data

Material does not have explosive properties

### Vapor Pressure

Not Available

### pH

Not Available

# MATERIAL SAFETY DATA SHEET

Density at 15°C	0.910 g/ml
Water Solubility	Insoluble
Percent Solid	Not Available
Percent Volatile	Not Available
Vapor Density	Not Available
Odor	Mild Hydrocarbon - characteristic lubricating oil odor
Viscosity at 40°C	143.2 cSt
Viscosity at 100°C	12.92 cSt
Boiling Point	Not Available
Pour Point Temperature	-25°C
Melting / Freezing Point	Not Available

## SECTION 10 - STABILITY AND REACTIVITY

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Incompatibility	Oxidizing Agents such as peroxides, chlorates, nitrates and concentrated acids.
Hazardous Reaction	Keep away from strong oxidizing agents, such as strong acids, chlorates, nitrates and peroxides. Hazardous polymerization does not occur.
Conditions to Avoid	Observe the usual precautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use. Avoid sources of ignition.

## SECTION 11 - TOXICOLOGICAL INFORMATION

Oral Toxicity	May lead to pulmonary edema or chemical pneumonitis.
Eye Irritation	May cause eye irritation.
Skin Irritation	A skin irritant. Prolonged or repeated skin contact may include redness, edema, drying, and cracking of the skin.
Dermal Toxicity	Not Available
Inhalation Toxicity	Not Available
Respiratory Irritation	If materials is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	No data available from manufacturer
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## SECTION 13 - DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS PRODUCT

The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection point. Spilled product that cannot be recovered should be absorbed and then shovel into a suitable waste container, such as a plastic drum and then be treated as a solid waste. Follow government regulations for disposal of such waste.

### DISPOSAL METHODS CONTAINER

Empty containers may contain residual oil. They should be completely drained and then stored until reconditioned or disposed of.

## SECTION 14 - TRANSPORT INFORMATION

Not classified as hazardous material for transport

## SECTION 15 - REGULATORY INFORMATION

Danger Label	None
Safety Phrases	None

## SECTION 16 - ANY OTHER RELEVANT INFORMATION

Preparation Date	08/04/15
Prepared By	POI QC Department
Revision Number	1

Material Safety Data Sheet contains health and safety information. For usage guide, refer to product TDS. Some Physical and Chemical values are typical values and does not contribute for a specification.